

5-fluorouracil (f-FU); ECF: epirubicin (Ellence®), cisplatin, and 5-FU; DCF: docetaxel (Taxotere®), cisplatin, and 5-FU; cisplatin with capecitabine; oxaliplatin and either 5-FU or capecitabine; and irinotecan.

**22.** The reagent of any one of claims **18-21**, wherein the micelle comprises trastuzumab or ramucirumab.

**23.** A composition comprising the reagent of any one of claims **1-22** and a pharmaceutically acceptable excipient.

**24.** A method for detecting esophageal adenocarcinoma (EAC), high grade dysplasia (HGD) of the esophagus, or Barrett's neoplasia in a patient comprising the steps of administering the reagent of any one of claims **1-22** to the patient and detecting binding of the reagent to esophageal cells of the patient.

**25.** A method of determining the effectiveness of a treatment for esophageal adenocarcinoma (EAC), high grade dysplasia (HGD) of the esophagus, or Barrett's neoplasia in a patient comprising the step of administering the reagent of any one of claims **1-22** to the patient, visualizing a first amount of cells labeled with the reagent, and comparing the

first amount to a previously-visualized second amount of cells labeled with the reagent,

wherein a decrease in the first amount cells labeled relative to the previously-visualized second amount of cells labeled is indicative of effective treatment.

**26.** The method of claim **24**, further comprising obtaining a biopsy of the cells labeled by the reagent.

**27.** A method for delivering a therapeutic moiety to esophageal adenocarcinoma (EAC) cells, high grade dysplastic (HGD) cells of the esophagus, or Barrett's neoplastic cells of a patient comprising the step of administering the reagent of any one of claims **1-22** to the patient.

**28.** A kit comprising the composition of claim **23** and instructions for use of the composition in a patient or cells of a patient.

**29.** The kit of claim **28**, further comprising a device for administering the composition to the patient or to the cells of the patient.

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